

Excel Developer Tip

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Some Useful VBA Functions

VBA has many useful built-in functions, but it lacks the ability to perform many common tasks. For example, if your application needs to determine if a particular file exists, you need to write your own code to make that determination.

This tip contains VBA code for six simple, but very useful functions. You can simply copy the code and paste it to your module.

- **FileExists** - Returns TRUE if a particular file exists.
- **FileNameOnly** - Extracts the filename part of a path/filename string.
- **PathExists** - Returns TRUE if a particular path exists.
- **RangeNameExists** - Returns TRUE if a particular range name exists.
- **SheetExists** - Returns TRUE if a particular sheet exists.
- **WorkBookIsOpen** - Returns TRUE if a particular workbook is open.

The **FileExists** Function

```
Private Function FileExists(fname) As Boolean
    ' Returns TRUE if the file exists
    Dim x As String
    x = Dir(fname)
    If x <> "" Then FileExists = True _
        Else FileExists = False
End Function
```

The **FileNameOnly** Function

```
Private Function FileNameOnly(pname) As String
    ' Returns the filename from a path/filename string
    Dim i As Integer, length As Integer, temp As String
    length = Len(pname)
    temp = ""
    For i = length To 1 Step -1
        If Mid(pname, i, 1) = Application.PathSeparator Then
            FileNameOnly = temp
            Exit Function
        End If
        temp = Mid(pname, i, 1) & temp
    Next i
    FileNameOnly = pname
End Function
```

The **PathExists** Function

```
Private Function PathExists(pname) As Boolean
```

```
' Returns TRUE if the path exists
Dim x As String
On Error Resume Next
x = GetAttr(pname) And 0
If Err = 0 Then PathExists = True _
Else PathExists = False
End Function
```

The RangeNameExists Function

```
Private Function RangeNameExists(nname) As Boolean
' Returns TRUE if the range name exists
Dim n As Name
RangeNameExists = False
For Each n In ActiveWorkbook.Names
    If UCASE(n.Name) = UCASE(nname) Then
        RangeNameExists = True
        Exit Function
    End If
Next n
End Function
```

The SheetExists Function

```
Private Function SheetExists(sname) As Boolean
' Returns TRUE if sheet exists in the active workbook
Dim x As Object
On Error Resume Next
Set x = ActiveWorkbook.Sheets(sname)
If Err = 0 Then SheetExists = True _
Else SheetExists = False
End Function
```

The WorkbookIsOpen Function

```
Private Function WorkbookIsOpen(wbname) As Boolean
' Returns TRUE if the workbook is open
Dim x As Workbook
On Error Resume Next
Set x = Workbooks(wbname)
If Err = 0 Then WorkbookIsOpen = True _
Else WorkbookIsOpen = False
End Function
```